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Receipt

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

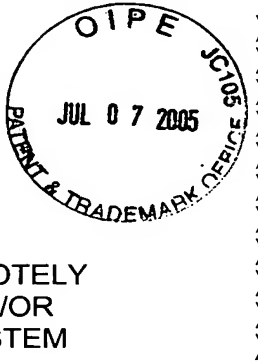
In re Patent Application of

Florian Straub et al.

Application No.: 10/510,372

Filed: April 14, 2005

For: METHOD FOR REMOTELY  
CONTROLLING AND/OR  
REGULATING A SYSTEM



Group Art Unit:

Examiner:

Confirmation No.: 8782

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

Commissioner for Patents  
Office of Initial Patent Examination  
Customer Service Center  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a copy of the Official Filing Receipt marked in red to show correction that is needed. The correction is as follows:

Please change the fifth inventor's country of residence **FROM Switzerland TO Germany**.

Issuance of a corrected Official Filing Receipt is respectfully requested.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: July 7, 2005

By:

Patrick C. Keane  
Registration No. 32,858

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/510,372	04/14/2005	2681	1080	004501-789	1	14	1

21839  
BURNS DOANE SWECKER & MATHIS L L P  
POST OFFICE BOX 1404  
ALEXANDRIA, VA 22313-1404



CONFIRMATION NO. 8782

## FILING RECEIPT



\*OC000000016268757\*

Date Mailed: 06/15/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

## Applicant(s)

Florian Straub, Wangen, GERMANY;  
Thomas Von Hoff, Zurich, SWITZERLAND;  
Mario Crevatin, Winterthur, SWITZERLAND;  
Hans-Peter Zuger, Hausen, SWITZERLAND;  
Bernhard Deck, Weilheim, ~~SWITZERLAND~~; *Germany*

## Assignment For Published Patent Application

ABB Research Ltd, Zurich, SWITZERLAND

**Power of Attorney:** The patent practitioners associated with Customer Number 21839.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/CH03/00224 04/04/2003

## Foreign Applications

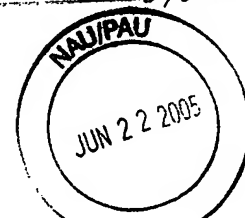
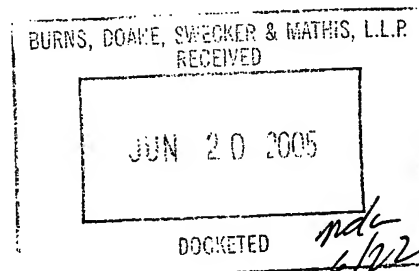
EUROPEAN PATENT OFFICE (EPO) 02405270.6 04/05/2002

Projected Publication Date: 09/22/2005

Non-Publication Request: No

Early Publication Request: No

*ABB*  
*004501-789*  
*PCK/new*



**Title**

Method for remotely controlling and/or regulating a system

**Preliminary Class**

455

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Florian Straub et al.

Application No.: 10/510,372

Filed: April 14, 2005

For: METHOD FOR REMOTELY  
CONTROLLING AND/OR  
REGULATING A SYSTEM



**MAIL STOP: ASSIGNMENT  
RECORDATION SERVICES**

Group Art Unit:

Examiner:

Confirmation No.: 8782

**REQUEST FOR CORRECTED NOTICE OF  
RECORDATION OF ASSIGNMENT DOCUMENT**

Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Upon review of the Notice of Recordation of Assignment Document in connection with the above-identified application, the undersigned has noted the following error(s) on the part of the U.S. Patent and Trademark Office:

Please add the date of 04/14/2005 to the filing date.

Enclosed is a copy of the original Notice of Recordation of Assignment Document with corrections marked in red. It is respectfully requested that the above correction(s) be made and that a corrected Notice of Recordation of Assignment Document be issued.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: July 7, 2005

By: 

Patrick C. Keane  
Registration No. 32,858

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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\*700171098A\*

MAY 31, 2005

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POST OFFICE BOX 1404  
ALEXANDRIA, VA 22313-1404

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RECORDATION DATE: 04/14/2005

REEL/FRAME: 016077/0932  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 004501-789

ASSIGNOR:  
STRAUB, FLORIAN

DOC DATE: 10/14/2004

ASSIGNOR:  
VON HOFF, THOMAS

DOC DATE: 10/14/2004

ASSIGNOR:  
CREVATIN, MARIO

DOC DATE: 10/14/2004

ASSIGNOR:  
ZUGER, HANS-PETER

DOC DATE: 10/14/2004

ASSIGNOR:  
DECK, BERNHARD

DOC DATE: 10/14/2004

016077/0932 PAGE 2

## ASSIGNEE:

ABB RESEARCH LTD.  
AFFOLTERNSTRASSE 52,  
CH-8050 ZURICH, SWITZERLAND

SERIAL NUMBER: 10510372

FILING DATE: 04/14/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD FOR REMOTELY CONTROLLING AND/OR REGULATING A SYSTEM

LENELL MACKALL, SUPERVISOR  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

# Facsimile Transmission

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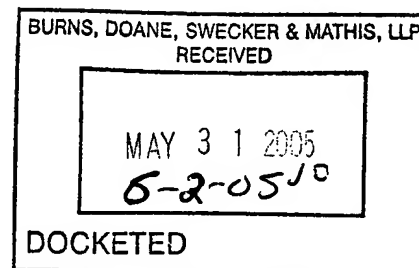
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Fax Number:  
Voice Phone: 703-308-9723

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1	Cover Page
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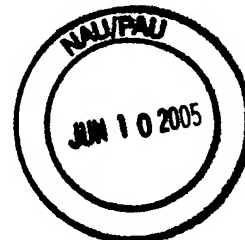
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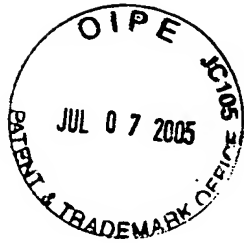


004501-789  
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NUMBER OF PAGES: 4

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DOCKET NUMBER: 004501-789

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STRAUB, FLORIAN

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VON HOFF, THOMAS

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ASSIGNOR:

CREVATIN, MARIO

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ASSIGNOR:

ZUGER, HANS-PETER

DOC DATE: 10/14/2004

ASSIGNOR:

DECK, BERNHARD

DOC DATE: 10/14/2004



016077/0932 PAGE 2

ASSIGNEE:

ABB RESEARCH LTD.  
AFFOLTERNSTRASSE 52,  
CH-8050 ZURICH, SWITZERLAND

SERIAL NUMBER: 10510372

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD FOR REMOTELY CONTROLLING AND/OR REGULATING A SYSTEM

LENELL MACKALL, SUPERVISOR  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

04/14/2005  
**RECORDATION COVER SHEET  
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U.S. Patent and Trademark Office  
**Attorney's Docket No. 004501-789**

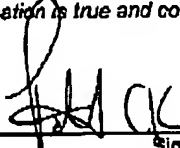
To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Florian STRAUB; Thomas VON HOFF; Mario CREVATIN; Hans-Peter ZUGER; and Bernhard DECK</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other</p> <p>Execution Date: October 14, 2004</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: ABB Research Ltd.</p> <p>Address: Affolternstrasse 52, CH-8050 Zurich, Switzerland</p> <p>Additional name(s) &amp; addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: _____</p> <table style="width: 100%;"> <tr> <td style="width: 50%;"> <p>A. Patent Application No.(s)</p> <p>10/510,372</p> </td> <td style="width: 50%;"> <p>B. Patent No.(s)</p> </td> </tr> </table> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		<p>A. Patent Application No.(s)</p> <p>10/510,372</p>	<p>B. Patent No.(s)</p>
<p>A. Patent Application No.(s)</p> <p>10/510,372</p>	<p>B. Patent No.(s)</p>		
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Patrick C. Keane</p> <p>Address:</p> <p>Burns, Doane, Swecker &amp; Mathis, L.L.P. Customer Number 2 1 8 3 9 P.O. Box 1404 Alexandria, Virginia 22313-1404</p>	<p>6. Total number of applications and patents involved: <span style="border: 1px solid black; padding: 0 5px;">1</span></p> <p>7. Total fee (37 CFR 3.41).....\$ <u>\$40.00 (8021)</u></p> <p><input type="checkbox"/> Enclosed  <input checked="" type="checkbox"/> Authorized to be charged to deposit account  <input type="checkbox"/> Credit card. Form PTO-2038 is attached.</p> <p>8. Deposit account number:</p> <p><u>02-4800</u>          (Attach duplicate copy of this page if paying by deposit account.)</p>		

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9. Statement and Signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

<p>Patrick C. Keane</p> <p>Name of Person Signing</p>	<p>32,856</p> <p>Reg. No.</p>	 <p>Signature</p>	<p>April 14, 2005</p> <p>Date</p>
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Substitute for Form PTO-1595		<b>RECORDATION FORM COVER SHEET PATENTS ONLY</b>		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
				<b>Attorney's Docket No. 004501-789</b>	
To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.					
<b>1. Name of conveying party(ies):</b>  Florian STRAUB; Thomas VON HOFF; Mario CREVATIN; Hans-Peter ZUGER; and Bernhard DECK  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<b>2. Name and address of receiving party(ies):</b> Name: ABB Research Ltd.  Address: Affolternstrasse 52, CH-8050 Zurich, Switzerland		
<b>3. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other  <u>Execution Date:</u> October 14, 2004			Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application is: _____					
<b>A. Patent Application No.(s)</b> 10/510,372			<b>B. Patent No.(s)</b>		
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Name: Patrick C. Keane  Address:  Burns, Doane, Swecker & Mathis, L.L.P. Customer Number 2 1 8 3 9 P.O. Box 1404 Alexandria, Virginia 22313-1404			<b>6. Total number of applications and patents involved:</b> <span style="border: 1px solid black; padding: 2px 10px;">1</span>		
			<b>7. Total fee (37 CFR 3.41).....\$</b> <span style="border: 1px solid black; padding: 2px 20px;">\$40.00 (8021)</span>  <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Credit card. Form PTO-2038 is attached.		
			<b>8. Deposit account number:</b>  02-4800 <i>(Attach duplicate copy of this page if paying by deposit account.)</i>		
<b>DO NOT USE THIS SPACE</b>					
<b>9. Statement and Signature.</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>					
Patrick C. Keane Name of Person Signing		32,858 Reg. No.		 Signature	
				April 14, 2005 Date	
Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px 10px;">4</span>					

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**DOCKETED**  
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PATENTS ONLY**U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office**Attorney's Docket No. 004501-789**

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

**1. Name of conveying party(ies):**Florian STRAUB; Thomas VON HOFF; Mario  
CREVATIN; Hans-Peter ZUGER; and Bernhard DECKAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: October 14, 2004**2. Name and address of receiving party(ies):**

Name: ABB Research Ltd.

Address:

Affolternstrasse 52, CH-8050 Zurich, Switzerland

Additional name(s) & addresses attached? ☐ Yes ☒ No**4. Application number(s) or patent number(s):**

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

**A. Patent Application No.(s)**

10/510,372

**B. Patent No.(s)**Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**

Name: Patrick C. Keane

Address:

Burns, Doane, Swecker & Mathis, L.L.P.  
Customer Number 2 1 8 3 9  
P.O. Box 1404  
Alexandria, Virginia 22313-1404**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 3.41).....\$** \$40.00 (8021)

- ☐ Enclosed  
☒ Authorized to be charged to deposit account  
☐ Credit card. Form PTO-2038 is attached.

**8. Deposit account number:**02-4800

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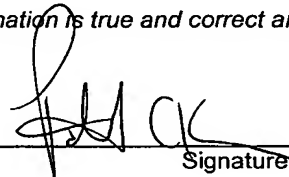
**DO NOT USE THIS SPACE****9. Statement and Signature.***To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Patrick C. Keane

Name of Person Signing

32,858

Reg. No.



Signature

April 14, 2005

Date

Total number of pages including cover sheet, attachments, and documents:

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P.O. Box 1450 / Alexandria, VA 22313-1450

# ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by Florian STRAUB, Thomas VON HOFF, Mario CREVATIN, Hans-Peter ZÜGER and Bernhard DECK residing at Sigmanner Weg 17, D-88239 Wangen, Germany, Naglerwiesenstrasse 45, CH-8049 Zürich, Switzerland, Kehlhof 2a, CH-8409 Winterthur, Switzerland, Eebrunnestrasse 28, CH-5212 Hausen, Switzerland and Scheueräcker 5, D-79809 Weilheim, Germany, (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in Method for remotely controlling and/or regulating a system set forth in an application for Letters Patent of the United States, which is a

- (1) ☐ which is a provisional application  
(a) ☐ bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;  
(b) ☐ to be filed herewith; or
- (2) ☒ which is a non-provisional application  
(a) ☒ bearing Application No. PCT/CH03/00224, and filed on 2003-04-04;  
(b) ☒ having an oath or declaration executed on even date herewith prior to filing of application;  
(c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, ABB Research Ltd, a corporation duly organized under and pursuant to the laws of Switzerland and having a principal place of business at Affolternstrasse 52, CH-8050 Zürich, Switzerland (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P., of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

DATE 2004-10-14 Signature of Assignor   
Florian STRAUB

DATE \_\_\_\_\_ Signature of Assignor \_\_\_\_\_  
Thomas VON HOFF

DATE \_\_\_\_\_ Signature of Assignor \_\_\_\_\_  
Mario CREVATIN

DATE \_\_\_\_\_ Signature of Assignor \_\_\_\_\_  
Hans-Peter ZÜGER

DATE \_\_\_\_\_ Signature of Assignor \_\_\_\_\_  
Bernhard DECK



AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

DATE 2004-10-14 Signature of Assignor B. Deck  
Bernhard DECK